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Frank A. Mathewson  
Government Affairs Director

April 20, 1994

APR 20 1994

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

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Mr William F. Caton, Acting Secretary  
Federal Communications Commission  
1919 M Street NW, Room 222  
Washington DC 200554

**RE: ex parte Presentation in GEN Docket 90-314 and PR Docket 93-61**

Dear Mr. Caton:

On April 19, 1994, representatives of AT&T met with the PCS Task Force Chairman and members of the FCC staff for the purpose of describing AT&T's strongly held positions in support of the Commission's decisions regarding spectrum allocation for unlicensed PCS devices (User PCS) as expressed in its Second Report and Order in the above proceeding. These positions have been previously set forth in the record of the proceeding. In addition, AT&T's vision of some of the unlicensed audio, video and data applications throughout the entire 40 MHz allocation, in the context of the educational environment. As well, certain proposed clarifications and modifications to the etiquette rules were addressed. The materials used in the presentation are attached.

Additionally, an AT&T representative brought up the subject of Automobile Vehicle Monitoring/Location Monitoring Service to Ralph Haller and reiterated AT&T's previously stated opposition, on technical incompatibility grounds, to the Commission's spectrum reallocation proposals being considered in PR Docket 93-61.

In addition to myself, AT&T attendees were Sandy Abramson, Don Johnson and Terry Sterkel. Should any questions arise, they should be directed to me.

Due to the timing of the meeting( about 4:15 PM), we were not able to file this report yesterday and are submitting it today, April 20.

Sincerely,

A handwritten signature in black ink, appearing to read "Frank A. Mathewson", written in a cursive style.

cc: Richard Engleman, Ralph Haller, Julius Knapp, Julia Kogan, Renee Licht, David Reed, Greg Rosston

# *Presentation to the PCS Task Force: A Unified Vision for User PCS*

# A Unified Vision for User PCS

- Current UPCS Allocation is Appropriate for Audio, Video and Data Services
- WINForum and Unlicensed Equipment Manufacturers have demonstrated the need for 40 MHz of Spectrum
- The *Unlicensed Wire-less On-Ramps* for the Information Superhighway Must be Both Isochronous and Asynchronous
- The WINForum Conclusions are Correct

# The UPCS Spectrum Allocation

- Critical to Meet Consumer Needs
- Required to Ensure Economic Feasibility
- Equal Division of “Sweet Spot” Critical to Spectrum Opportunities and Relocation Funding
- Expedited Processes for Spectrum Clearing Needed

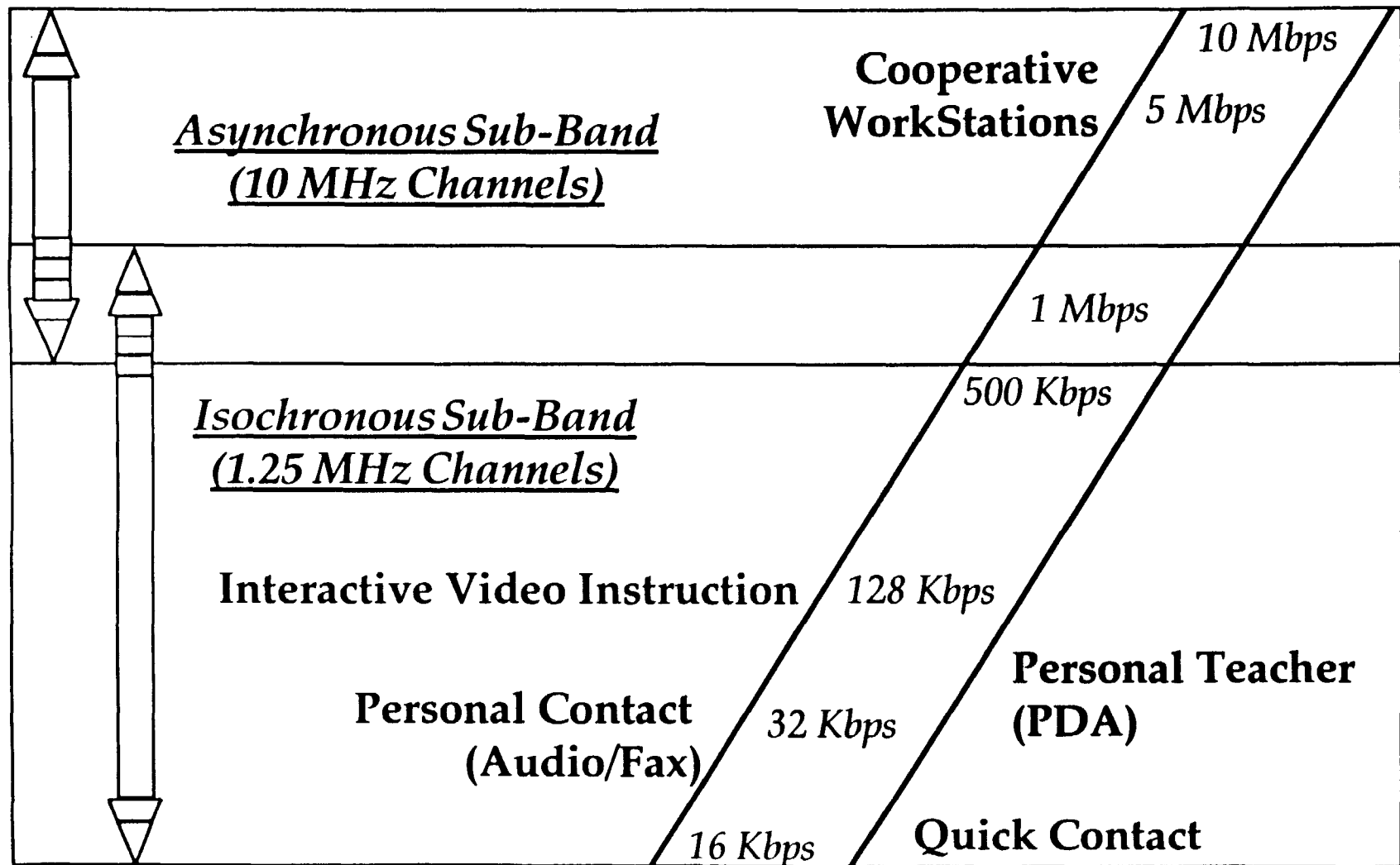
*Statement of UTAM, Inc., , PCS Task Force Panel, April 12, 1994.*

# The Need for 40 MHz

- Technically supported in multiple WINForum contributions and two (2) Ex Parte
- 40 MHz identified as minimum
- Consistent with viable product offerings
- Consistent with High Density Applications, such as the Wire-less Classroom

# The Wire-less Classroom

*Achieved with the Current UPCS Allocation!*



# The Wire-Less Classroom

Implementing the Vision . . .

. . . User PCS (UPCS) Allocation

- **Minimum Needs:**
  - *Isochronous Spectrum (20 MHz)*
    - » Quick Contact (Short Messaging)
    - » Personal Contact (Audio/Fax)
    - » Personal Teacher (PDA)
    - » Inter-Active Video Instruction
  - *Asynchronous Spectrum (20 MHz)*
    - » Work Groups using Coordinated Work Stations
    - » Wireless Local Area Networks

# Personal Teacher (PDA)

- **Library Access (on-line NOW!)**
  - *Clionet (Australia)*
  - *LC Marvel! (Library of Congress)*
  - *Lexis/Nexis*
  - *Singapore Daze*
- **Personalized Instruction**
- **Personalized Course Planning**



# Inter-Active Video Instruction

- **Remote Class Room**
  - *Electronic “Black Board”*
  - *PDA to Video Viewing*
  - *Person to Person “Connection” via Video*
- **Networks of Classrooms**
  - *Collaborative Instruction*
  - *New Teacher - Student Paradigm*
  - *Diversity Learning*

# Cooperative Workstations

- Ad-Hoc Workgroups using Wireless LAN and Peer-to-Peer Workstations (IEEE 802.11)
- Technical Clarifications Needed to Fulfill the Vision
  - *Power Level Specification*
  - *Spectrum Access and Transmission Burst Timing*
  - *Emission Bandwidth*
  - *Reaction Time Definition*

# Conclusion

- **Current UPCS Spectrum is needed and justified, for data, audio and video PCS**
- **Current UPCS Spectrum Plan showing equal split is appropriate**
- **Access to Information Super Highway will be via both Isochronous and Asynchronous Devices**